

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing of claims in the application:

Listing of the Claims:

Claims 1-22 (canceled).

1 Claim 23 (previously presented): Fibre reinforced
2 pressurizable structure comprising a gas or fluid-tight body
3 overwound as an isotensoide with a number of fibre
4 filaments, whereby the radius of the body varies with
5 respect to a rotation-symmetrical axis of the structure,
6 such that said body comprises a number of concave surface
7 sections spaced apart from the axial ends, each having a
8 local minimum radius, and a number of convex surface
9 sections spaced apart from the axial ends, each having a
10 local maximum radius, characterized in that at least one
11 concave surface section is continuously overwound with a
12 fibre as an isotensoide.

1 Claim 24 (currently amended): Fibre-rein forced
2 pressurizable structure according to claim 23, characterized
3 in that the fibre windings in the at least one concave
4 surface section comprises ~~in~~ a non-pressurized state of the
5 structure a multiple number of substantially straight fibre
6 filaments forming a hyperboloid.

1 Claim 25 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the fluid-tight body is quasi-geodesically overwound

4 in a continuous fashion.

1 Claim 26 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the longitudinal orientation of the fibre along a
4 finite length thereof is oriented substantially
5 perpendicular with respect to the rotation symmetrical axis
6 of the structure.

1 Claim 27 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that the fibre in a pressurized state undergoes torsion
4 with respect to its longitudinal center-line, so that
5 substantially one side of the curved fibre remains in
6 contact with the body in the at least one concave surface
7 section.

1 Claim 28 (previously presented): Fibre-reinforced
2 pressurizable structure according to claim 23, characterized
3 in that in a pressurized state there is reversal of the side
4 in the at least one concave surface section.

Claims 29-38 (canceled).

1 Claim 39 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the body is
3 flexible, i.e., non-rigid, and that the fibres are supported
4 by a matrix material.

1 Claim 40 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the axial
3 length of at least one axial section of the structure is

4 variable with respect to the longitudinal axis of the
5 pressurizable structure.

1 Claim 41 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that at least one
3 axial section of the structure is pivotable with respect to
4 the longitudinal axis of the pressurizable structure.

1 Claim 42 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that at least one
3 axial section of the structure is pivotable with respect to
4 an axis, which axis is orthogonal with respect to the
5 longitudinal axis of the pressurizable structure.

1 Claim 43 (new): Fibre-reinforced pressurizable structure
2 according to claim 40, characterized in that at least one
3 axial section of the structure comprises a combination of at
4 least two of the technical elements of said claims, e.g. in
5 that at least one axial section of the structure is
6 pivotable with respect to the longitudinal axis of the
7 pressurizable structure and that the axial length of this
8 axial section of the structure is variable with respect to
9 the longitudinal axis of the pressurizable structure as in
10 the case in which the pressurizable structure comprises a
11 substantially hyperboloid shape.

1 Claim 44 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the
3 pressurizable structure comprises a one- to three
4 dimensional arrangement of a number of pressurizable fuel
5 tanks or pipelines.

1 Claim 45 (new): Fibre-reinforced pressurizable structure
2 according to claim 24, characterized in that the
3 pressurizable structure comprises a spring means for a
4 load-displacement function, preferably an adjustable
5 load-displacement function.

1 Claim 46 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the
3 pressurizable structure comprises means for an actuating
4 function, such as for elevators, excavators and industrial
5 robots.

1 Claim 47 (new): Fibre-reinforced pressurizable structure
2 according to claim 23, characterized in that the
3 pressurizable structure comprises means for a shoring or
4 strutting function, such as construction beams.

1 Claim 48 (new): Fibre-reinforced pressurizable structure
2 according to claim 47, characterized in that the means for a
3 shoring or strutting function, such as construction beams,
4 are adaptable to the Eigen-frequencies of the pressurizable
5 structure.